Central Intelligence Agency



Washington, D. C. 20505

DIRECTORATE OF INTELLIGENCE

29 September 1986

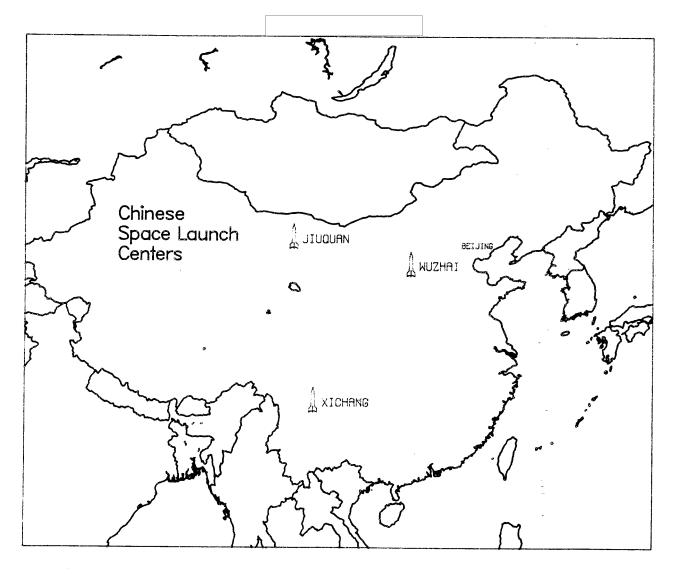
| China's Space Program: Future Developments and Commercial Sales | 25X1 |
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| SUMMARY | |
| The Chinese have embarked on an ambitious space launch program which, if successful, will meet domestic needs and may generate foreign currency earnings of \$100 million in 1988 and \$500 million per year by the mid-1990s, through sales of launch services. On the basis of established practices in other Chinese defense industries, hard currency earnings from Beijing's space marketing campaign will probably help underwrite improvements in China's ballistic missiles. China's space industry is 10 to 15 years behind the United States, Europe, and Japan in technology, but it has the capacity to launch many more satellites than Beijing plans to launch for domestic programs. | 25X1 |
| This memorandum was prepared by Office of Scientific and Weapons and Office of East Asian Analysis. Information available as of 29 September 1986 was used in its preparation. Comments and queries are welcome and may be directed to the Chief, International Security Branch, OEA, | 25X1 2£25X 25X |
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| Capitalizing on NASA's Problems | |
| To take advantage of excess capacity, the Chinese entered the space launch services market in April 1984 and accelerated their efforts shortly after the Challenger disaster in January 1986. China has signed launch agreements with a US corporation and Sweden and is negotiating agreements with Canada, Great Britain, Brazil, Iran Pakistan, and some African countries. | r 1 |
| Beijing probably will sign a \$27.5 million contract with Western Union by December for a March 1988 communications satellite launch and an option for a second launch at the same price. | |
| The Chinese signed a \$4 million contract earlier this year to place a smal Swedish satellite into low Earth orbit as part of a dual payload with a Chinese satellite in October 1988. | |
| Beijing is also negotiating with a religious organization based in Florida for launch of two satellites that, attempting to buy from the Communications Satellite Corporation. | |
| The most widely publicized contract—with the US Teresat Corporation—may not lead anywhere. Teresat has not made scheduled payments and does not own either of the shuttle—recovered satellites it proposes to launch. | 1 2 |
| Few Dangers of Technology Leakage | |
| The launch of a US satellite undoubtedly would give China's marketing program a boost because US firms would require that the Chinese launchsite essentially meet US standards. The Chinese would gain little new technology, however, if they launched Western commercial satellites of standard design—such as those being considered in discussions between US companies and the Chinese: | ; |
| The mechanical and electrical connections between the satellite and launch vehicle would not involve sensitive technology. | I |
| US checkout equipment taken to the launchsite will be under US control and will be removed after launch. Furthermore, the Chinese could not gain sensitive technology merely by observing the equipment in operation. | |
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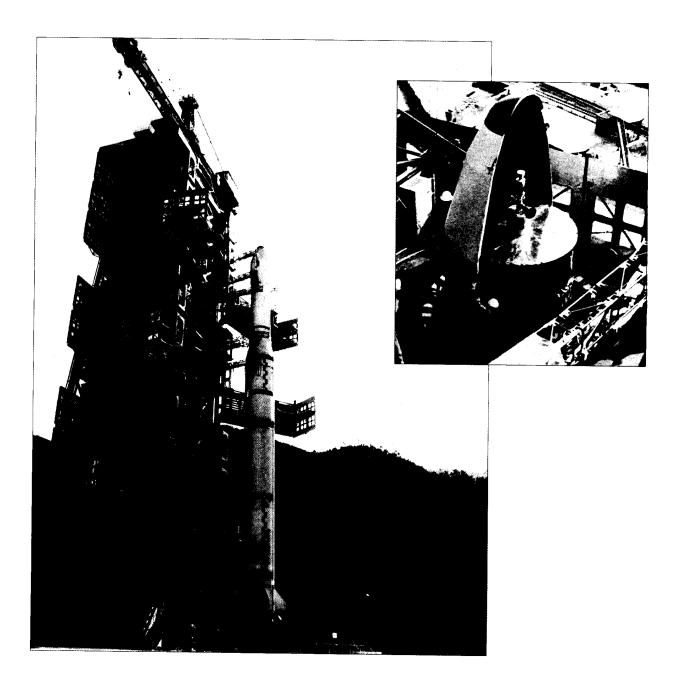
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| | would not obtain sensitive technology by photographing or intact US satellite. |
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| n Impressive Capab | pility |
| unches per year by atellites per year fro arth orbits from two | the 1990s. China is capable of launching up to six geostationary of Xichang (Songlin) and from six to 12 satellites per year into low pads at Jiuquan (Shuangchengzi). In addition, the Chinese might ai for one or two polar launches per year. |
| Chinese Space La | aunch Facilities |
| and gantry with a launches. It was used in January | In addition to geostationary satellites, the facility |
| | o place heavy satellites into low Earth orbits and could also e ICBM testing to the Pacific Ocean. |
| service towers w launches and ICB 1950s with Sovie | nch facilities at Jiuquan consist of two opposed pads and with a centrally placed, moveable gantry to support satellite M testing. Construction at Jiuquan began in the mid-to-late t assistance. Beijing launched its first satellite (1970) and all arth orbit missions from Jiuquan. |
| Subsequent low L | artir orbit imosions from bruquan. |
| | |
| | nree space launch vehicles, the CZ-1, CZ-2, and CZ-3, and publications, plans to improve each with technology now available |
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| • Their most frequently used space launch vehicle, the CZ-2, was derived from the CSS-4 ICBM. It was designed for low Earth orbiting missions and can place up to 2,400 kg into a 200-km orbit. According to Chinese publications, China plans to increase this capability to 2,600 kg by using Western orbital insertion motors. We estimate that the Chinese have from two to five CZ-2s on hand. The CZ-2 has been successfully launched on at least 10 of 12 attempts and has not failed since 1979. | |
| China's newest space launch vehicle, the CZ-3, is a CZ-2 with a liquid-hydrogen, liquid-oxygen third stage and can place up to 1,500 kg into geostationary transfer orbit. It is similar to the European Space Agency's Ariane I or the US Delta rocket. We estimate that the Chinese have up to five CZ-3s available for launch. The CZ-3 failed on its first launch (January 1984), but succeeded in two subsequent launches. | |
| | 25X1 |
| Beijing's plans for liquid-propellant strap-on boosters for the CZ-2 and CZ-3. The CZ-3 with four strap-on boosters and an improved third stage should be ready by 1991 and will have lift capabilities similar to the European Space Agency's Ariane IV. | 25 X 1 |
| Their oldest and least expensive launch vehicle, the CZ-1, was derived from the CSS-3 ICBM and can place up to 300 kg into a 440-km orbit. According to Chinese publications, a new version will have a larger third stage and modestly improved performance. The CZ-1 was successfully launched on two of two attemptsin 1970 and 1971. | 25X1 |
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Figure 3 Chinese Satellite Launch



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| Outlook We expect the Chinese to be successful in their bid to enter the market. Chinese prices are highly competitive—at least 15 percent comparable services from the European Space Agency or the National Space Administration. If Beijing successfully meets its first few launce. | below those for Aeronautics and |
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| - D/DCI-DDCI Exec Staff (7D60) - C/ACIS (6F20) - NIO/EA (7E62) - C/EA/(5D10) - C/DDO/EA/(5D38) - DDO/EA/(5D54) - C/PES (7F24) - NIC/Analytical Group (7E47) - PDB Staff (7F30) - CPAS/ILS (7G50) - CPAS/IMC/CB (7G07) - C/OCR/DSG/EA (1H18) - Senior Review Panel (5G00) - D/OEA (4F18) - C/OEA/PROD (4G48) - C/OEA/NEA (4G43) - C/OEA/SEA (4F38) - C/OEA/CH (4G32) - C/OEA/CH/TT (4G32) | |
| - D/DCI-DDCI Exec Staff (7D60) - C/ACIS (6F20) - NIO/EA (7E62) - C/EA/ (5D10) - C/DDO/EA/ (5D38) - DDO/EA/ (5D54) - C/PES (7F24) - NIC/Analytical Group (7E47) - PDB Staff (7F30) - CPAS/ILS (7G50) - CPAS/IMC/CB (7G07) - C/OCR/DSG/EA (1H18) - Senior Review Panel (5G00) - D/OEA (4F18) - C/OEA/PROD (4G48) - C/OEA/NEA (4G43) - C/OEA/SEA (4F38) - C/OEA/CH (4G32) | |

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